Fill in the Blanks

Inverse of a 3x3 Matrix

Matrix A	det A	Matrix of Minors M	Matrix of Cofactors C	Transpose of Cofactors C^T	Inverse Matrix A^{-1}
$\begin{pmatrix}3&1&0\\0&2&0\\0&0&1\end{pmatrix}$	6	$\begin{pmatrix}2&0&0\\1&3&0\\0&0&6\end{pmatrix}$	$\begin{pmatrix}2&0&0\\-1&3&0\\0&0&6\end{pmatrix}$	$\begin{pmatrix}2&-1&0\\0&3&0\\0&0&6\end{pmatrix}$	$\begin{pmatrix}\frac{1}{3}&-\frac{1}{6}&0\\0&\frac{1}{2}&0\\0&0&1\end{pmatrix}$
$\begin{pmatrix}0&-1&2\\2&3&-1\\1&1&0\end{pmatrix}$	-1	$\begin{pmatrix}1&1&-1\\-2&-2&1\\-5&-4&2\end{pmatrix}$	$\begin{pmatrix}1&-1&-1\\2&-2&-1\\-5&4&2\end{pmatrix}$	$\begin{pmatrix}1&2&-5\\-1&-2&4\\-1&-1&2\end{pmatrix}$	$\begin{pmatrix}-1&-2&5\\1&2&-4\\1&1&-2\end{pmatrix}$
$\begin{pmatrix}3&2&0\\4&2&-1\\-2&0&1\end{pmatrix}$	2	$\begin{pmatrix}2&2&4\\2&3&4\\-2&-3&-2\end{pmatrix}$	$\begin{pmatrix}2&-2&4\\-2&3&-4\\-2&3&-2\end{pmatrix}$	$\begin{pmatrix}2&-2&-2\\-2&3&3\\4&-4&-2\end{pmatrix}$	$\begin{pmatrix}1&-1&-1\\-1&\frac{3}{2}&\frac{3}{2}\\2&-2&-1\end{pmatrix}$
$\begin{pmatrix}1&-3&0\\4&-1&2\\1&0&1\end{pmatrix}$	5	$\begin{pmatrix}-1&2&1\\-3&1&3\\-6&2&11\end{pmatrix}$	$\begin{pmatrix}-1&-2&1\\3&1&-3\\-6&-2&11\end{pmatrix}$	$\begin{pmatrix}-1&3&-6\\-2&1&-2\\1&-3&11\end{pmatrix}$	$\begin{pmatrix}-0.2&0.6&-1.2\\-0.4&0.2&-0.4\\0.2&-0.6&2.2\end{pmatrix}$
$\begin{pmatrix}2&a&0\\2&1&-2\\-1&0&1\end{pmatrix}$	2	$\begin{pmatrix}1&0&1\\a&2&a\\-2a&-4&2-2a\end{pmatrix}$	$\begin{pmatrix}1&0&1\\-a&2&-a\\-2a&4&2-2a\end{pmatrix}$	$\begin{pmatrix}1&-a&-2a\\0&2&4\\1&-a&2-2a\end{pmatrix}$	$\begin{pmatrix}\frac{1}{2}&-\frac{a}{2}&-a\\0&1&2\\\frac{1}{2}&-\frac{a}{2}&1-a\end{pmatrix}$
$\begin{pmatrix}-b&1&-1\\1&0&2\\b&-1&2\end{pmatrix}$	-1	$\begin{pmatrix}2&2-2b&-1\\1&-b&0\\2&1-2b&-1\end{pmatrix}$	$\begin{pmatrix}2&2b-2&-1\\-1&-b&0\\2&2b-1&-1\end{pmatrix}$	$\begin{pmatrix}2&-1&2\\2b-2&-b&2b-1\\-1&0&-1\end{pmatrix}$	$\begin{pmatrix}-2&1&-2\\2-2b&b&1-2b\\1&0&1\end{pmatrix}$